## **CLAIMS**

What I claim as my invention is:

1. A test tip device for measuring an analyte in a sample comprising:

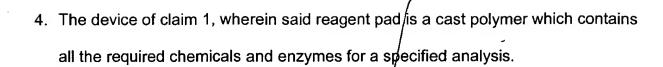
a piece of optical fiber with two ends;

a reagent pad containing all the necessary chemicals and enzymes for a specified analysis;

said reagent pad being mounted to one end of said optical fiber;

a detection device comprising: (a) a light emitting source; (b) a housing for engaging the other end of said fiber to said light source; (c) a photo detector to receive light reflected off the reagent pad end of said fiber; (d) a processor to convert the light signal to the analyte concentration, and (e) a display to display the test results.

- 2. The device of claim 1, wherein the test tip is disposable.
- 3. The device of clared, wherein the reagent pad is a membrane impregnated with dry chemicals and enzymes.

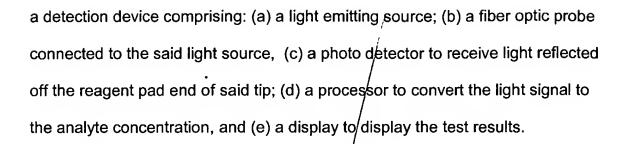


- 5. The device of claim 1, wherein the reagent pad membrane is mounted to the end of said optical fiber by an adhesive.
- 6. The device of claim 1, wherein the reagent pad membrane is mounted to the end of said optical fiber by ultrasonic welding.
- 7. The device of claim 1, wherein said optical fiber is made of glass/glass, or plastic/plastic, or glass/plastic.
- 8. A tubular test tip device for measufing an analyte in a sample comprising:

a piece of micro tubing with two lends;

a reagent pad containing all the necessary chemicals and enzymes for a specified analysis;

said reagent pad being mounted to one end of said tubing;



- 9. The device of claim 8, wherein the test tip is disposable.
- 10. The device of claim 8, wherein the reagent pad is a membrane impregnated with dry chemicals and enzymes.
- 11. The device of claim 8, wherein the reagent pad membrane is mounted to the end of said optical tubular tip by an adhesive.
- 12. The device of claim 8, wherein the reagent pad membrane is mounted to the end of said tubular tip by ultrasonic welding.
- 13. The device of claim 8, wherein said reagent pad is a cast polymer which contains all the required chemicals and enzymes for a specified analysis.
- 14. The device of claim 8, wherein said fiber optic probe is made of glass/glass, or plastic/plastic, or glass/plastic